Session Program

14–17 May 2018

InterPore2018 New Orleans

Parallel 8-H

New Orleans

Wednesday 16 May

14:35

Parallel 8-H

Session | **Location:** New Orleans

14:37–14:52

A multiscale method with Robin boundary conditions for the porous media equations

Speaker
Rafael Trevisanuto Guiraldello

14:55–15:10

A new iterative downscaling procedure for multiscale methods in porous media flows

Speaker
Dr Fabricio Sousa

15:13–15:28 **Recursive Parallel Implementation of Multiscale Mixed Methods**

Speaker
Paola Ferraz

15:31–15:39 **Short Break**

15:40–15:55

Convergence Analysis of McMC Methods for Subsurface Flow Problems

Speaker
Dr Arunasalam Rahunanthan

15:58–16:13 **Multiscale Data Assimilation of Spatially Distributed Information**

Speaker
Rafael Moraes

16:16–16:31

Characterization of Rock Properties in Coupled Fluid Flow and Geomechanics Problems

Speaker
Marcio Borges

16:34–16:49

Numerical modeling and simulation of two-phase flow problems in heterogeneous porous media with gravity and dynamic capillary pressure

Speaker
Eduardo Abreu

16:52–16:54

Low Frequency Vibrations as the Indication of the Structural Transformations in Zeolitic Imidazole Frameworks – Density Functional Theory Study

Speaker
Filip Formalik

16:55–16:57

Harnessing highly non-linear structures for amplified attenuation by local flow

Speaker
Patrick Kurzeja

16:58–17:00

Computer simulation of the geometric pore size and validation with glass bead tests for metal wire meshes

Speaker
Dr Andreas Wiegmann

17:01–17:03

On the Reuse of Multiscale Basis Functions for the Approximation of Time-dependent Problems

Speaker
Prof. Felipe Pereira

17:04–17:06

A new coupled approach for numerically solving convection-diffusion problems with discontinuous capillary pressure

Speaker
Dr Arthur Santo

17:07–17:09

RBF-FD approximations based on polyharmonic splines basis with supplementary polynomials applied in a pore-scale problem

Speaker
Luis Guilherme Cunha Santos

17:10–17:12 **High-Order Conservative Flux Optimization Finite Element Methods**

Speaker
Dr Junping Wang

17:13–17:15 **Empty pitch slot**

17:15